WhisperKOOL® XLT
Owner's Manual

Protecting Your Investment In Fine Wines

Vinothèque
WINE CELLARS

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NEW OWNERS PLEASE NOTE...

ALWAYS PLACE UNIT IN UPRIGHT POSITION

Do not start or plug-in your new unit for 24 hours after delivery. . .

Units are sometimes accidentally tipped onto their sides during shipping which may allow compressor oil to escape their reservoirs. . .

Premature starting—before the oil has had a chance to resettle—can cause damage to the compressor and result in a lack of cooling.

A DEDICATED 20 AMP CIRCUIT IS HIGHLY RECOMMENDED FOR OPTIMUM OPERATION!

INTRODUCTION

Thank you for purchasing the WhisperKOOL® wine cellar temperature and humidity maintenance system.

Please take the time to read through the owner's manual so you understand the correct operations of the WhisperKOOL unit.

What Is the WhisperKOOL System?

The WhisperKOOL system is a specialized refrigeration unit designed for one purpose only: to maintain the optimal temperature and humidity levels conducive to the proper aging of fine wines. It is a self-contained cooling unit designed to be mounted through the wall into the wine cellar.

How Does the WhisperKOOL System Work?

- **The WhisperKOOL system** is designed to maintain humidity, while measuring and maintaining the wine temperature in the cellar. This is achieved by gently cooling rather than by quick-chilling.

- **Temperature Setting:** The WhisperKOOL unit can be set at any temperature within the acceptable wine-aging range of 50°F -to- 70°F. It is designed to cool 30°F cooler than the ambient temperature of the space it is exhausting to.

- **Humidity Control:** There are no separate controls for maintaining proper humidity. Humidity is managed through the design and engineering of the unit. As the temperature begins to drop within the wine cellar, the relative humidity will rise, while the absolute humidity will stay the same. For more information about this process, see *Normal Operation* on page 14.

- **The WhisperKOOL system** is designed to be mounted through an interior wall into the cellar. The unit will operate correctly in a controlled environment to properly manage the effective cooling of the cellar. The unit is not designed to withstand the elements of an outdoor climate where summer temperatures exceed 85 degrees or in winter environments where temperatures reach freezing. The components are not designed for these extreme conditions and premature failure may occur.

Note: Improperly preparing your enclosure or incorrectly installing your WhisperKOOL system may cause unit failure, leaking of condensation, and other negative side effects.

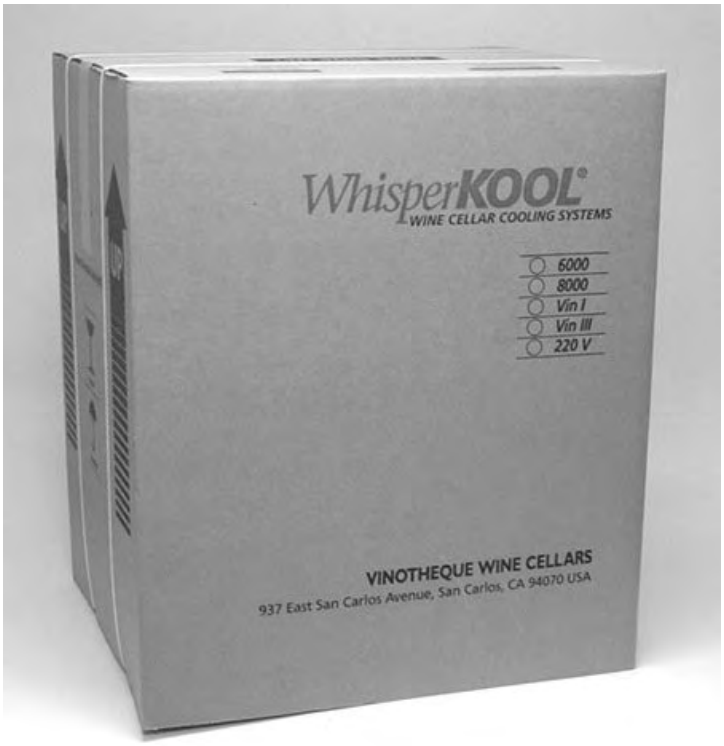
RECEIVING AND UNPACKING

Please examine the WhisperKOOL packaging for any damage to the carton. Note any damage on the bill of lading, shipper's receipt, or airbill. Damaged merchandise should be accepted. Contact Vinothèque Customer Service immediately.

A representative will file a claim with the shipping company, arrange for a replacement unit to be shipped to you and for the original unit to be picked up. In some instances, an inspection must take place at the point of receipt, in which case you will be contacted by the shipping company to schedule an appointment to inspect the damaged goods.

Please leave the WhisperKOOL System in its original box until you are ready for installation. This will allow you to move the product safely without damaging it. When you are ready to remove the product from the box, see Installation on page 7.

Note: Save your box and all packing materials. They provide the only safe means of transporting the unit.



PREPARING THE WINE CELLAR

The performance and life of your WhisperKOOL System are contingent upon the steps you take in preparing the wine cellar.

It is highly recommended that you obtain the assistance of a wine storage professional.

Wine storage professionals work with licensed contractors, refrigeration technicians, and racking companies to build well-insulated, beautiful, and protective wine cellars. In some areas of the country, these professionals are not available. We have put together some useful tips to assist in the installation process.

Our recommendations are meant to act as a guide in the process of building a proper enclosure. Your intended location may have specific needs that we do not address.

Wall & Ceiling Framing

Build wine cellar walls using standard 2x4 or 2x6 construction methods and ceiling joists following the guidelines of local and state codes in your area. The general rule for a cellar is the thicker the walls, the higher the insulation factor, the better the cellar remains at a consistent temperature.

Insulation

Insulation is REQUIRED with the use of the WhisperKOOL product; Standard “Fiberglass” or “Rigid Foam” insulation is normally used in cellar construction, or in some cases, “blown in” insulation is used. It is very important that all walls and ceiling be insulated to keep the cellar temperature as consistent as possible during the summer and winter months. The R factor or thickness of insulation is determined by the thickness of the walls and ceiling. For example, fiberglass insulation of R13 is designed to be used in a 2x4 wall.R19 is used in a 2x6 wall. It is important to use the correct insulation for the wall thickness.

Vapor Barrier

Vapor barrier is REQUIRED if a climate control cooling unit is installed to keep the cellar at the correct temperature and humidity. 6mm plastic sheeting is applied to the warm side of the cellar walls.The vapor barrier must be either applied to the outside walls and ceiling, or if it is impossible to get to the outside, then the plastic must be applied from within the cellar. The most common method is to wrap the entire interior, leaving the plastic loose in the stud cavity so the insulation can be placed between each stud. All walls and ceiling must be wrapped in plastic for a complete vapor barrier.In areas of humidity, such as the southern and gulf states, the vapor barrier will prevent infiltration of warm moist air. The moist air can cause mold to form. The cooling unit will strip excessive moisture from the air and create water, which will need to be dissipated back out of the cellar using the Condensate Evaporator system or drain line. In dry climates, the vapor barrier will provide more control over retaining the higher correct humidity within the cellar.

Ducting

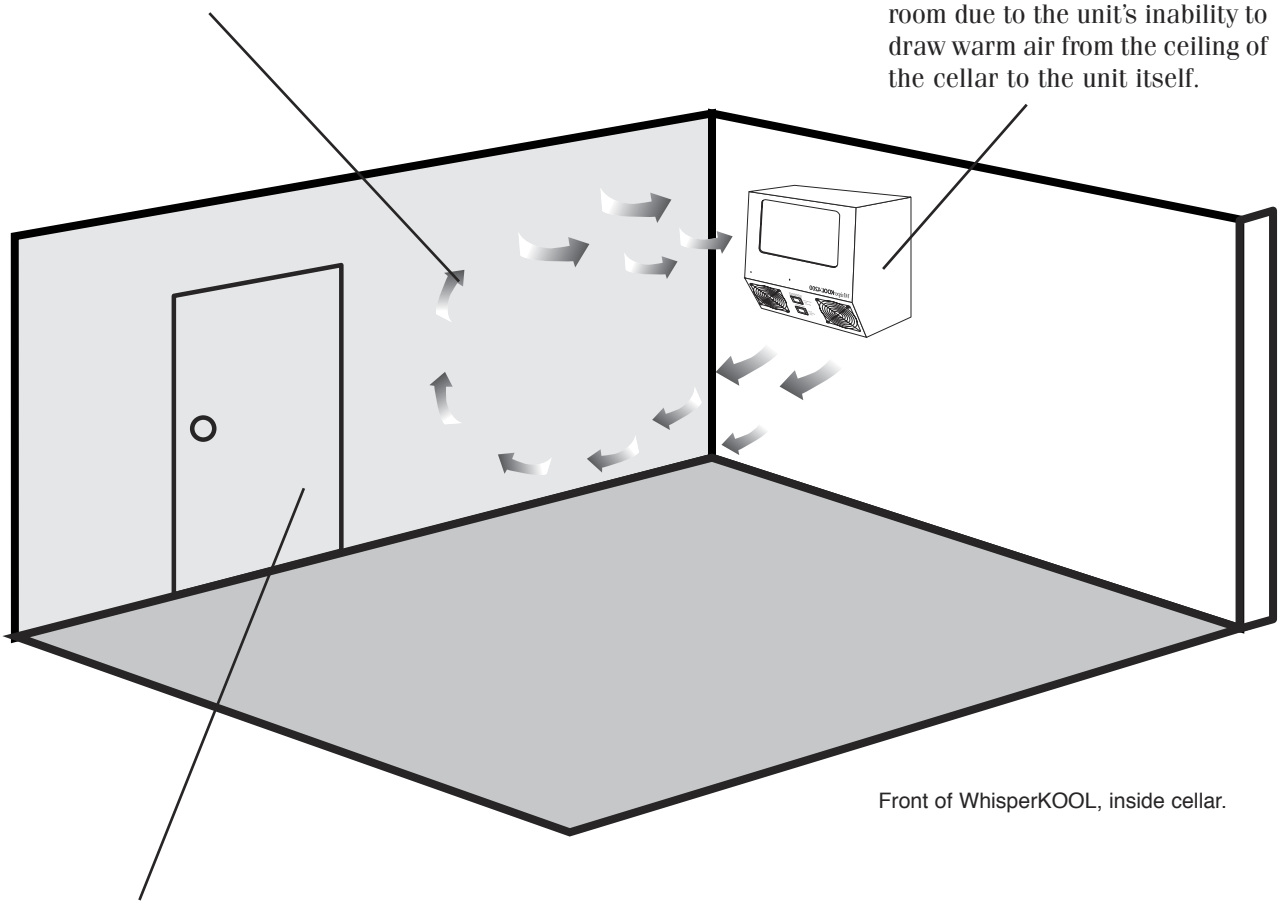
The unit is designed to exhaust into an open area. Any attempt to duct the exhaust ports to redirect airflow will result in voiding the warranty. The fans are not designed to push air through a restricted duct system. The fans and compressor will be over worked and may result in premature failure.

Unobstructed Airflow

Unobstructed airflow to and from the unit is a critical factor in the unit's overall performance. Make sure there is a three-foot horizontal clearance in the front of the unit. This will assure that the unit can move the air around in an efficient manner. Avoid the attempt to camouflage the unit by installing racking in front of the unit. This will restrict airflow and thus the unit's ability to work efficiently.

Mounting the Unit

The unit should be mounted within 18 inches of the top of the room in order to achieve sufficient cooling. As the room cools down, the warm air will rise to the ceiling. Mounting the WhisperKOOL high in the room will create a consistently cool environment by capturing the warm air and replacing it with cool air. Mounting the unit low in the room will result in a temperature variation in the room due to the unit's inability to draw warm air from the ceiling of the cellar to the unit itself.



Front of WhisperKOOL, inside cellar.

Door

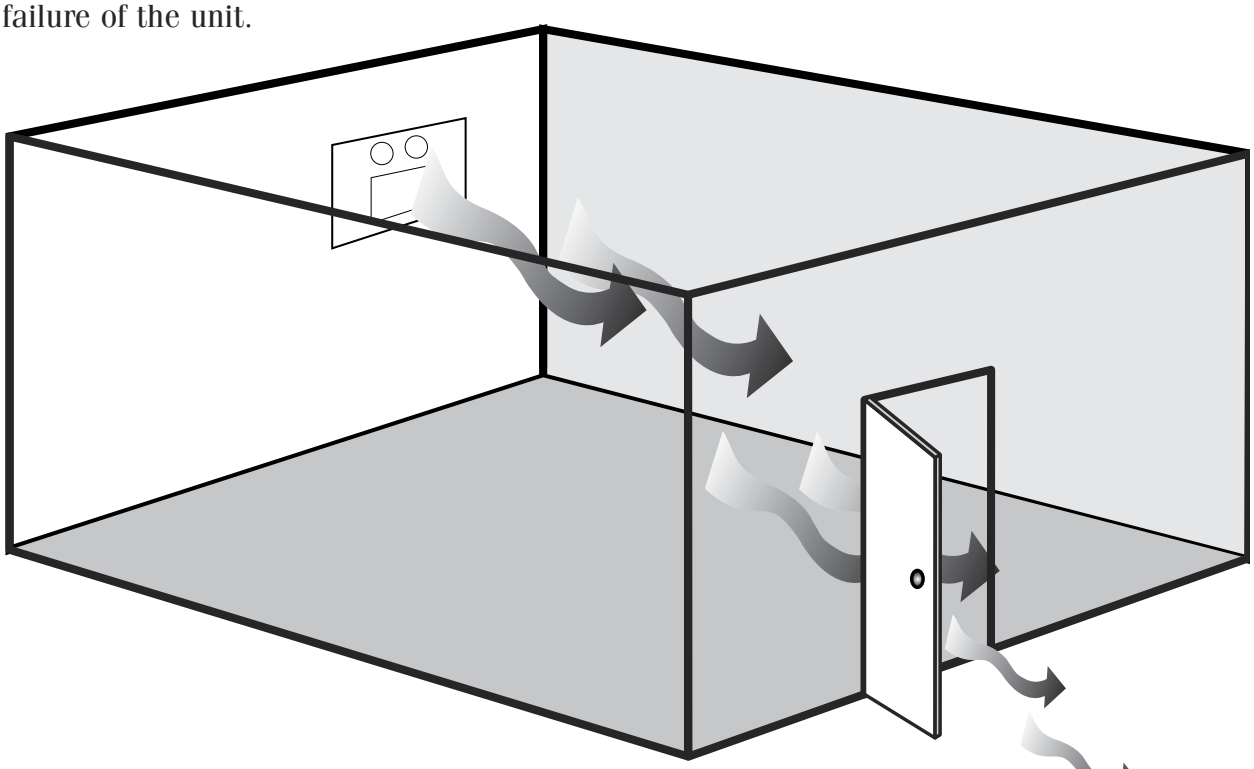
An exterior grade (1 3/4") door must be installed as a cellar door. It is very important that weather stripping is attached to all 4 sides of the doorjam. A bottom "sweep" or threshold is also required. The door must have a very good seal to keep the cool cellar air from escaping out of the cellar. One of the most common problems with cooling units running continually is due to the door not sealing properly. In cases where glass doors are used and the room size is close to the recommended unit size, the next larger size WhisperKOOL should be used. This will compensate for the insulation loss due to the inefficient door.

Ventilation

The necessity of dissipating heat away from the unit is critical to the unit's performance and cannot be overstated. As the unit operates and cools, a greater amount of heat is generated on the exhaust side of the unit. Adequate ventilation is required in order to dissipate heat away from the unit. If ventilation is inadequate, the exhaust will heat up and adversely affect the unit's ability to cool. In some cases, it may be advisable to install a vent fan to dissipate heat within the exhaust area on the backside of the unit. However, you must have a fresh air inlet as well. Do not attempt to install ducting on the unit. The fans are not designed for ducting and will result in premature failure of the unit.

Unobstructed Airflow

Unobstructed airflow to and from the unit is a critical factor in the unit's overall performance. Make sure there is a minimum three-foot horizontal clearance from the rear of the unit. This will assure that the unit can move the air around in an efficient manner.

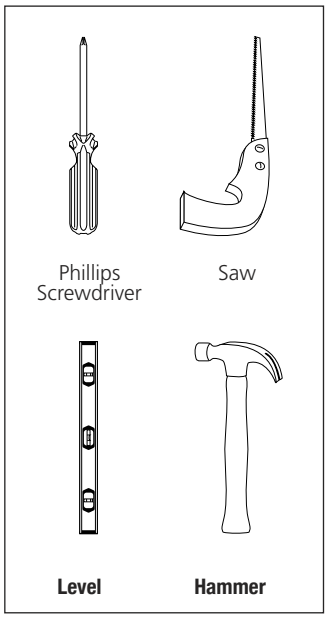


Rear of WhisperKOOL exhaust area

Ambient Temperature Factor

The cooling system has the ability to cool a maximum of 30°F below the ambient temperature in the room it is exhausting to. Therefore you want to exhaust the unit in a room which will not exceed 85°F. Otherwise the unit will not have the capacity to keep the wine at a desirable 55°F.

Tools Needed

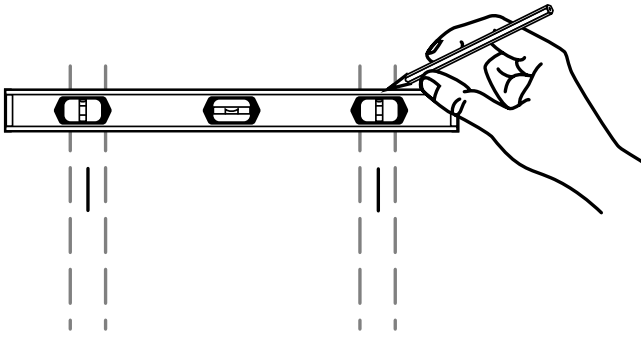


Cutting the hole for the WhisperKOOL unit

Locate the center of the room. Using a stud finder, locate two adjacent studs in the walls, and mark them with vertical lines.

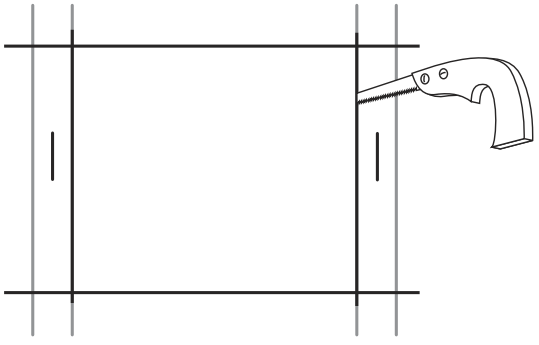
Using a level and a pencil, mark a horizontal line on the wall between the two studs, approximately 1.25 inches (or as close as possible if more than 1.25") from the ceiling. Using a ruler or measuring tape, measure 16 inches down (22.75" for the 6000 and 8000 models), and mark another horizontal line parallel to the first one.

Mark the horizontal lines with a level.

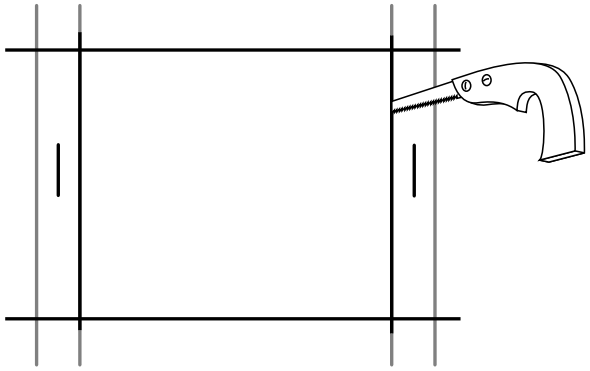


Using a saw, cut along the uppermost horizontal line until your saw reaches the stud. Turn the saw around, inserting it into the cut you have just made, and cut toward the opposite stud so that you have a clean horizontal cut between the two studs. Be careful not to cut into the studs themselves. Now make the second horizontal cut from stud to stud on the line 16 inches below the first cut (22.75″ for the 6000 and 8000 models).

Cut horizontal lines from stud to stud.

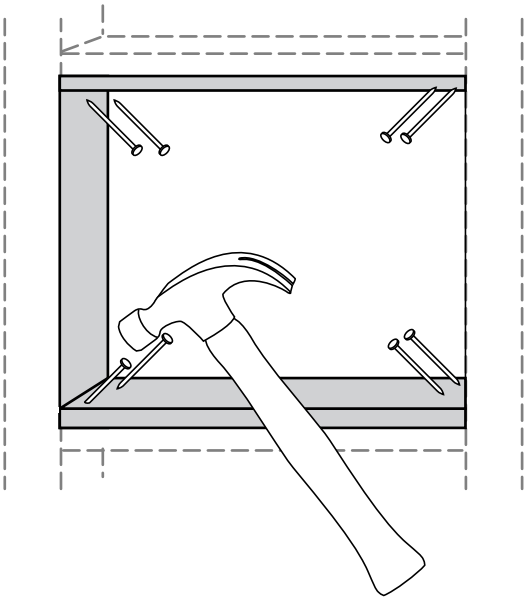


Once the horizontal lines have been cut, make vertical cuts using the inside edge of the studs as a guide. Once you have made both vertical cuts, you should have a rectangular hole in the sheetrock. Now you have to make the same hole on the other side of the wall. Since you already have one hole, this is an easy process. Using a nail, mark all four corners of the first hole by making nail holes through the sheetrock. Then on the other side of the wall, connect the holes with a pencil mark and cut.



Cut vertical lines along the inside edge of the studs.

Sheetrock alone cannot support the weight of a 65-pound (or more) cooling system. Therefore, it is necessary to frame the hole that you have just cut with upper and lower supports. Using two two-by-fours 14.5 inches in length and eight 6d nails, secure the upper and lower supports to the right and left studs, just inside the sheetrock. Make sure that the internal height remains at 16″ for the 1600, 3000 and 4200 models and 22.75″ for the 6000 and 8000 models so that the WhisperKOOL system will fit snugly through the framed cut-out.



Frame the hole with two-by-four supports.

INSTALLATION

Electrical Needs

The WhisperKOOL System requires a dedicated 110-volt 20-amp circuit. The unit draws a large amount of amps at initial start up. By designating a dedicated circuit breaker, you will guarantee the unit has enough power to run effectively. Contact your electrician for installation-of this dedicated electrical circuit.

Electrical Outlet

The unit is equipped with two electrical outlets, one for installation inside the cellar and the other for installation outside the cellar. The outlet on the inside is covered and has been secured with screws. Regardless of which side is utilized, the other outlet must then be covered in order to avoid a live electrical charge.

Purchase a surge protector or power conditioner to plug your WhisperKOOL unit into. As with any sensitive electrical equipment, the WhisperKOOL unit's circuitry may be damaged by power surges and spikes. Power surges and spikes are not covered by the WhisperKOOL warranty.

Do not use a Ground Fault Interrupter (GFI) with this product. The cooling unit will draw more amperage than the GFI will allow.

Upon plugging the unit in and turning it on, there will be a five minute delay before the unit starts. This is based on the function of the thermostat.

Sizing Unit to Room

The specification chart will provide information on the unit's room size cooling capacity. There are circumstances in which a cellar design may require a larger unit due to some existing design restrictions. In such a case, we recommend that the customer consider purchasing a unit with a larger capacity to compensate for the design limitations. Issues such as glass doors, concrete walls and floors may seem adequate but do not offer the insulation capacity required to maintain the optimum environment.

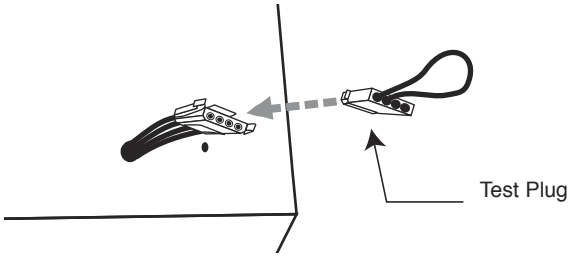
MODEL	BTU	AMPS	AMPS	PRODUCT DIMENSIONS	ROOM SIZE
		(starting)	(running)	(H x W x D)	(cubic feet)
WK 1600	1600	13	4.5	15.75" x 14.25" x 17"	300
WK 3000	3000	16	6	15.75" x 14.25" x 17"	650
WK 4200	4200	18	9	15.75" x 14.25" x 17"	1000
WK 6000	6000	22	9.5	22.5" x 14.25" x 21.25"	1500
WK 8000	8000	32	10	22.5" x 14.25" x 21.25"	2000

Carefully remove your WhisperKOOL unit from the box. Do not destroy your packing material, as it provides the only safe means of transporting the unit. Units weigh 65–100 pounds and are cumbersome for one person to carry. We recommend that you get someone else to help you during the installation process.

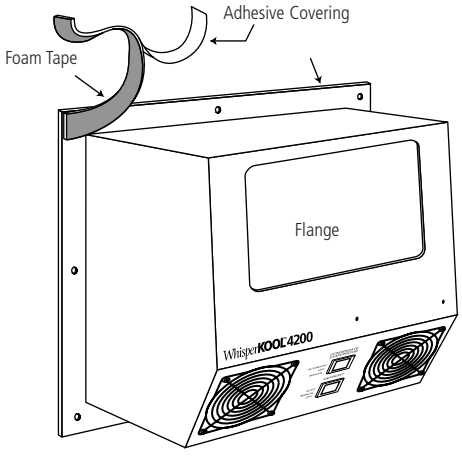
Testing Unit

Place the WhisperKOOL system on a tabletop to prepare it for installation and testing. Locate the by-pass plug and insert it into the thermostat plug, located on the front of the WhisperKOOL System. Next, plug the system into a live electrical outlet and turn the unit on. The system should begin cooling. The system may take up to 10 to 15 minutes before running cool. Once the operation has been tested, turn the unit off, unplug the unit from the electrical outlet, and remove the by-pass plug.

Note: *If the system does not seem to be running cool after 15 minutes, please refer to the Troubleshooting Guide on page 15.*



Before installation, use the by-pass test plug to test the unit.



Attach precut foam tape to the unit's flange.

Applying Insulation Tape

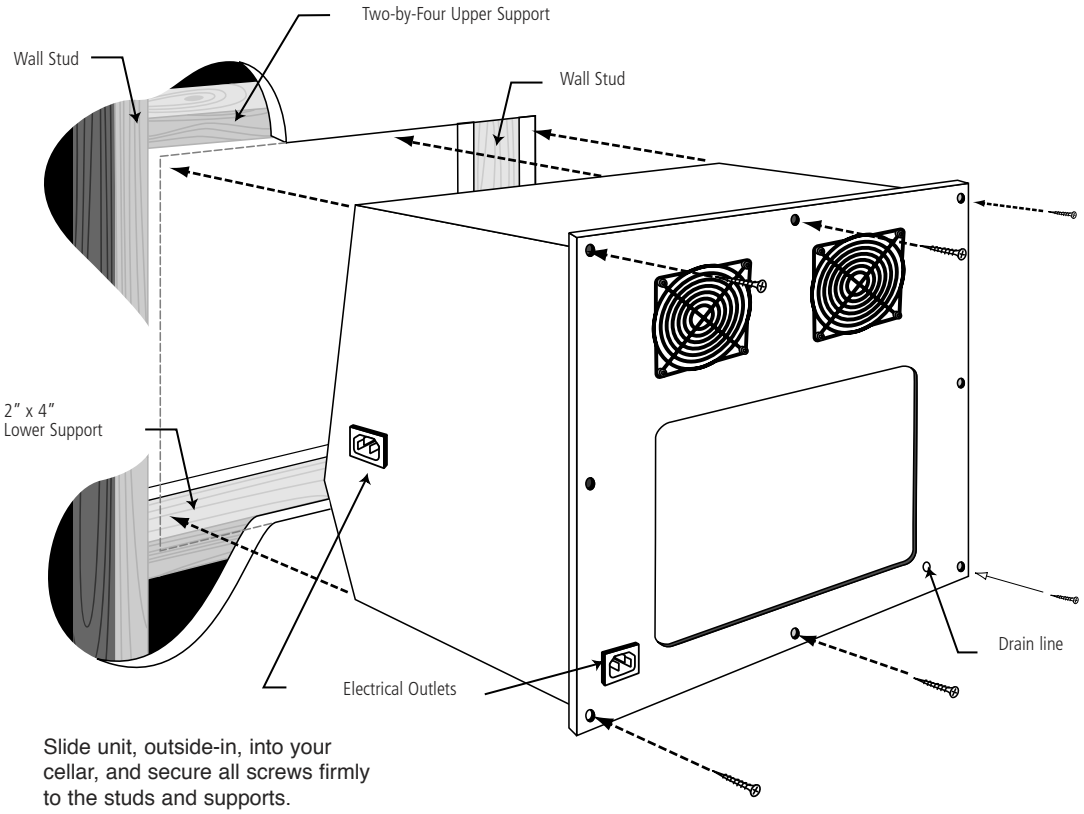
Locate the four precut pieces of black foam tape included with your system. There should be two larger pieces and two smaller pieces. Start with the large pieces. Peel back the white-paper adhesive covering, and attach the large pieces to the top and bottom of the unit flange. Then follow with the two smaller pieces on the right and left sides. This foam creates a tight seal between the unit's flange and the wall (see illustration).

Placement of Unit

Slide the unit from the outside wall into your wine cellar with the outer flange flush to the outside wall. Secure the flange to the wall through the predrilled holes. The screws should penetrate the studs as well as the upper and lower supports to provide adequate support for the WhisperKOOL System (see illustration). Seal all cracks and gaps around the WhisperKOOL unit to prevent air leakage. If you use molding, it should be attached to the walls, never to the WhisperKOOL unit itself.

Electrical Outlet

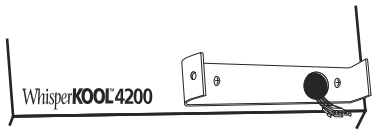
The unit is equipped with two electrical outlets, one for installation inside the cellar and the other for installation outside the cellar. The outlet on the inside is covered and has been secured with screws. Regardless of which side is utilized, the other outlet must then be covered in order to avoid live electrical charge.



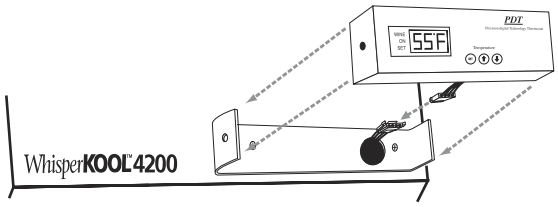
Slide unit, outside-in, into your cellar, and secure all screws firmly to the studs and supports.

Installing Thermostat

Attach the thermostat to the front of the unit using the mounting bracket. Make sure the black male plastic plug from the unit is securely fitted into the female plug located on the circuit board of the thermostat. To complete the installation, insert the small black screws into each side of the thermostat PDT/PDT Jr. securing it to the mounting bracket.



Attach the PDT mounting bracket.



Attach the PDT to the mounting bracket.

USING THE WHISPERKOOL SYSTEM

Power Switch

The new series WhisperKOOL units come equipped with an On/Off switch. The On/Off switch is simply used when the owner does not need to utilize the equipment.

NOTE; (It will take five minutes before the unit begins to operate once the switch is placed in the "On" position. This is due to the designed safety delay in the PDT thermostat.)

Condensate Evaporator Switch

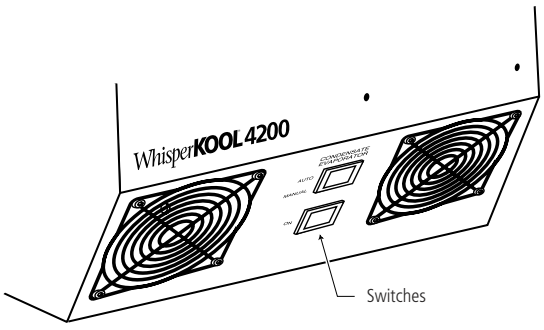
The Condensate Evaporator is a heating element that automatically evaporates excess condensate that accumulates in the cooling system as a by-product of refrigeration. Like most cooling systems, WhisperKOOL uses heat from the compressor to evaporate and eliminate the majority of the water that accumulates during normal use. However, during certain weather conditions or in humid areas (above 80%), more condensate will accumulate than the cooling system can evaporate with heat from the compressor_alone. Only the WhisperKOOL units are equipped with sophisticated heating elements that automatically sense the presence of water and work continually until the water is gone.

Setting the Condensate Evaporator to the "On" setting causes the heating element to operate whenever water is present in the compressor pan.

If your wine cellar is located in a dry climate, there is a good chance that the unit will not accumulate excessive water. Therefore, elect to save electricity by setting the Condensate Evaporator to the "AUTO" position.

Drain Line

All units come with a drain line for additional removal of excessive condensate. This is a back up system to the Condensate Evaporator. If the unit is installed in a high humidity area of the country, it is mandatory to install the drain line attachment. In high humidity, the cooling unit will strip excess water from the air in order to maintain the proper level of humidity within the cellar. The Condensate Evaporator will heat and dissipate the excess moisture through the rear of the unit. However in extreme humidity, additional condensate will be created. Conversely the high humidity air has less capacity to absorb additional moisture through the exhaust of the unit. Thus the drain line will prevent overflow and leaking by allowing for discharge of the additional condensate.



Location of control switches

LIQUID MEASURING THERMOSTAT SYSTEM

All WhisperKOOL units come equipped with our **Precision Digital Technology** (PDT/PDTJR) liquid temperature measuring thermostat system. This system incorporates the following advantages:

1. **Self-Calibrating Probe:** The probe contains a sensor chip, which actually communicates back and forth to the thermostat. This results in a consistent temperature setting and accuracy.

2. **Built in Defrost Cycle:** The unit is designed to shut off for five minutes every ninety minutes in order to prevent frost build up. This allows the cooling unit to continue to cool effectively in demanding environments. A count down timer is observed by depressing the center button on the thermostat. (PDT upgrade version only)

3. **Heavy-duty Circuitry:** The circuitry within this new unit has been upgraded to resist power surges, which play havoc on electrical components. This improvement will ensure years of trouble-free use. However, for high reliability, we still recommend that the customer install a surge protector for the unit itself.

4. **Fahrenheit and Celsius Readout** (PDT upgrade version only): The thermostat has the ability to produce the readout in both Fahrenheit and Celsius for overseas customers. The readout can be changed by depressing both the center and right buttons at the same time.

Measuring liquid temperature has a few unique advantages:

1. Wine temperature is kept in a very precise controlled environment. This assures a consistent temperature.

2. By measuring the liquid temperature rather than air, the unit will run less often

To Use the thermostat:

1. Locate an empty wine bottle.

2. Fill 3/4 full with room temperature tap water.

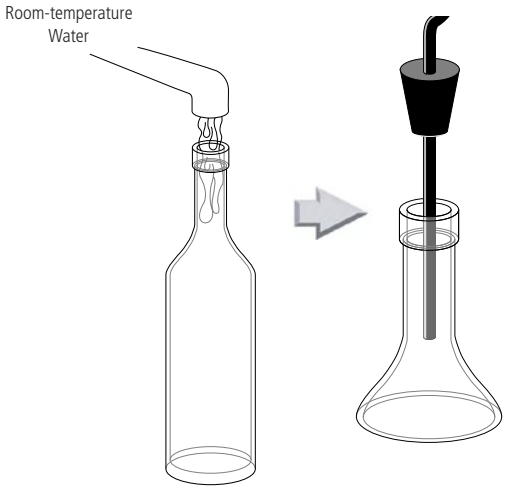
3. Place bottle probe securely into bottle.

4. Place bottle with probe in a central location of your wine cellar.

Avoid pulling too much on the probe cord. It may become disconnected resulting in non operation of the unit.

Note: Thermostat can be set between 50°F and 76°F.

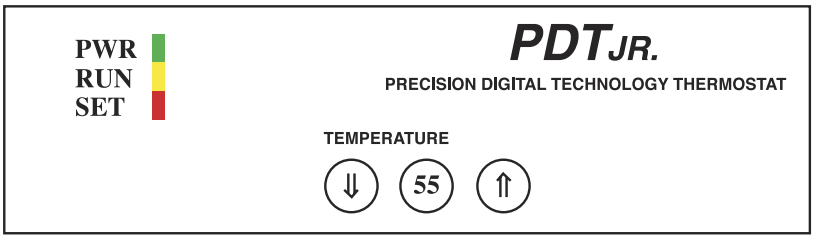
Remember: The WhisperKOOL System is ***based on the temperature of the wine***. Do not be misled by thermostats reading air temperature. The air temperature in the cellar will be cooler than the liquid temperature of the wine while it is coming to optimum balanced temperature.



Fill an empty bottle with room-temperature water; then insert the probe.

PDT JR OPERATING INSTRUCTIONS

Operating Instructions for Vinothèque PDT JR. Thermostat



Indicators

There are three colored lights on the left side of the thermostat:

- **PWR** (Green) – When this light is on, the unit is powered.
- **RUN** (Yellow) – When this light is on, the compressor is running. If the light is flashing, the unit is currently in the five-minute lockout.
- **SET** (Red) – This light flashes when the set-point temperature is changed by pressing one of the three control buttons (see below). It flashes once for each press of the ⇑ or ⇓ button, and twice when the **55** button is pressed.

When the unit is first turned on, all three lights flash slowly while the thermostat starts up. Once the unit completes its start-up check, the compressor is locked out for five minutes. During this time the **RUN** light will be flashing slowly (1 flash per second).

All three lights will flash rapidly if there is no probe connected to the thermostat.

Buttons

To change the set-point temperature, press either the ⇑ or ⇓ button. The SET light will flash once for each 1°F the set-point is changed. This set-point will remain in memory until you change it.

If you forget where the unit is set, pressing the **55** button will reset the set-point to 55°F and the SET light will flash twice. The temperature cannot be adjusted below 50°F or above 76°F. Attempting to set the unit outside this range will cause the **SET** light to rapidly flash.

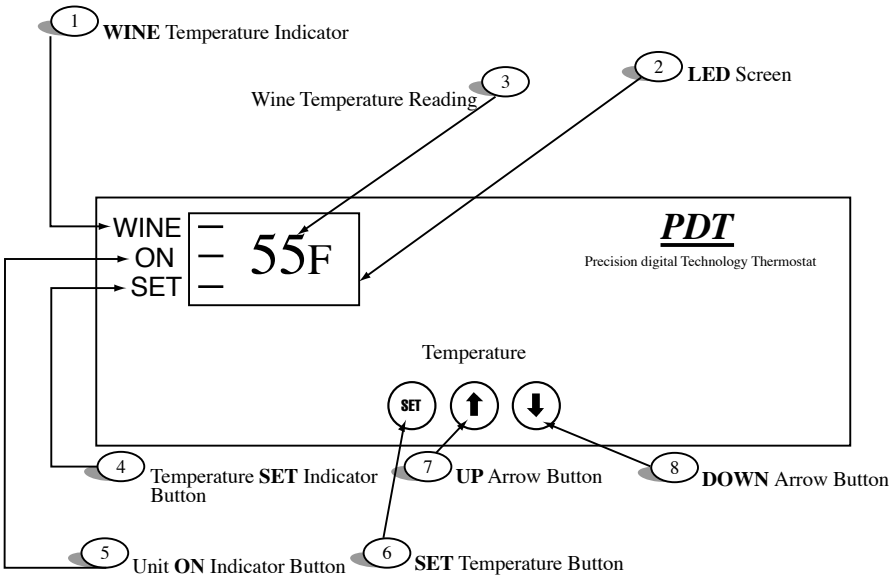
Operation

Whenever the compressor shuts off normally, a five-minute lockout period begins and the **RUN** light will be flashing slowly (1 flash per second).

If the compressor runs for 90 continuous minutes, a five-minute defrost cycle is forced, during which time the compressor will not run. During this defrost cycle the **RUN** light will be flashing rapidly (2.5 flashes per second).

PDT OPERATING INSTRUCTIONS

The unit is set at 55°F at the factory. To raise or lower the set temperature, press the set button while at the same time pressing either the arrow up or arrow down button.



1. **Wine Temperature Indicator:** A red LED bar will light up when the thermostat is reading the liquid temperature in the bottle via the probe. This will remain lit and the temperature you see displayed is what the probe is reading.
2. **LED Screen:** Displays your thermostat readings.
3. **Wine Temperature Reading:** The temperature the water bottle is registering to the thermostat.
4. **Temperature SET Indicator:** A red LED bar will light up when you are setting the temperature.
5. **Unit ON Indicator:** A red LED bar will light up every time the unit turns on to run a cooling cycle.
6. **SET Button:** Used to set the temperature you want the unit to maintain.
7. **UP Arrow Button:** Used with the SET button to set temperature higher. In addition, by pressing and holding the button it will allow you to see the 5-minute count down.
8. **DOWN Arrow Button:** Used with the SET button to set temperature lower.

Up and Down Arrow Buttons used simultaneously will change the temperature read out from Fahrenheit to Celsius

NORMAL OPERATION

WhisperKOOL systems are designed to maintain both temperature and humidity. Once the system is installed and the temperature set, it will run continuously until the wine cellar is at your set wine temperature. This may be as much as two weeks, depending on the size of the room, the quality (R-value) of insulation, the original temperature of the wine, and the number of bottles residing in the cellar. Once the cellar has achieved the set temperature, the WhisperKOOL unit will cycle to maintain ±0.5°F of your set temperature.

The WhisperKOOL system will run more often than a refrigerator or air conditioner, due to its gentle cooling and humidity maintenance.

People often make the mistake of comparing the performance of refrigerators with the performance and cycling of wine storage equipment. Wine cellar cooling systems are highly specialized and designed for one purpose only–long term storage of wine.

Maintenance

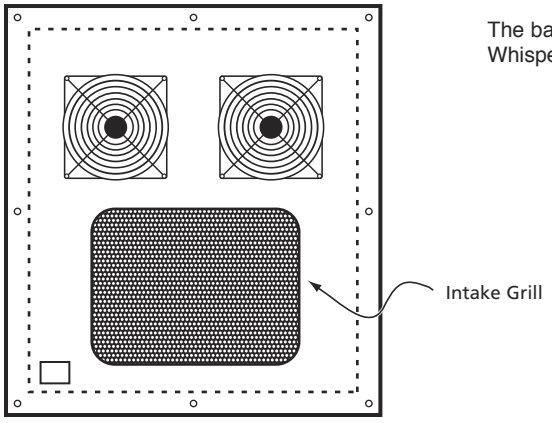
The following maintenance should be performed on your WhisperKOOL unit at least once every six months to promote longevity and optimal performance.

Vacuum the back of the WhisperKOOL unit to clean the condenser coils and prevent air blockage. The condenser coils reside behind the grill on the back of the WhisperKOOL unit. Don't try to open the unit itself. Just vacuum the surface of the grill and remove any lint or dust that has accumulated.

Humidity Control

There are no separate switches in order to maintain humidity. The cooling unit is designed to maintain relative humidity at 50-70%.

The WhisperKOOL units do not create humidity. If you live in a dry area of the country you many need to create humidity in the wine cellar. This can be done by introducing a non-heat humidifier, or installing a small fountain within the cellar.



The back side of a WhisperKOOL unit.

TROUBLESHOOTING GUIDE

Problem	Likely Cause	Remedy
The unit does not cool the room	Inadequate door seal Improperly mounted unit Unit has inadequate ventilation	See “Door Seal” section on pg. 16 See “Unit Mounting” section on pg. 17 See “Airflow” and “Ventilation” sections on pg. 15
Water leaking out the front fan vents	Internal condensation drain is clogged	See *Water Leaking, Front* in the “Condensation” section on pg. 17
Water leaking from the rear	Condensate Evaporator is not properly set for local climate Drain line is not attached	See *Water Leaking, Rear* in the “Condensation” section on pg. 18 See “Drain line” section on pg. 10
Unit is icing up	Thermostat is faulty Unit is low on refrigerant	See “Thermostat” section on pg. 17 See “Icing Up” section on pg. 18
Unit isn’t running or makes intermittent clicking noises	Problem with local electrical circuit	See “Power Requirements” section on pg. 19

Try this first!

Clean off any accumulated dust, lint, or other debris from the front and rear intake grills. This will restrict the airflow and may affect the unit’s ability to function properly. Periodically cleaning the unit’s vents will help assure maximum cooling efficiency.

Airflow

Proper airflow is critical to the performance of the WhisperKOOL unit. Any obstruction to the intake and exhaust ports on either side of the unit will compromise the unit’s ability to cool. Make sure the WhisperKOOL unit fan vents are clear. Check the front and rear intake vents for any possible obstruction. There should be a minimum clearance of three feet directly in front of the intake and exhaust vents.

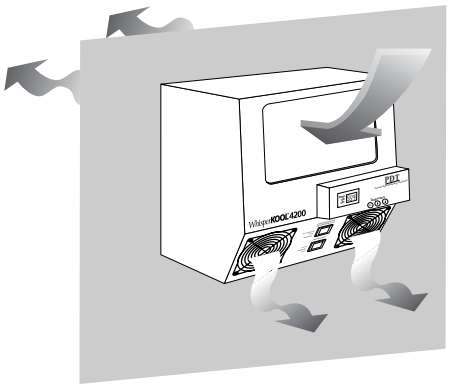
Ventilation

Proper ventilation of the WhisperKOOL unit is one of the most important and often overlooked issues associated with the unit’s performance.The WhisperKOOL unit does create a large amount of heat, which needs to dissipate away from the unit freely in order to cool correctly. This issue is sometimes overlooked for several reasons:

1.) If there is inadequate ventilation on the rear side of the unit, this will result in further heat buildup and will cause it to recirculate the hot air near the ceiling on the exhaust side of the unit, therefore limiting the ability to cool the room.

2.) Even though the space may seem to be adequate, the heat needs to be able to dissipate away from the unit. A lack of ventilation will cause the room to become extremely warm.

3.) The WhisperKOOL unit is designed to cool 30°F cooler than the ambient temperature of the room it is exhausting the hot air to (rear side of unit). This means that in order to maintain an optimum temperature of 55°F, the temperature on the exhaust side of the WhisperKOOL unit cannot be more than 85°F.



Air flows on both sides of the wall.

In order to determine if ventilation may be the problem, try the following tests.

1.) Measure the air temperature at the intake grill on the backside of the WhisperKOOL unit. Measure the air temperature in front of the circulation fans in front of the unit. If there is a 30°F temperature variation, then the unit is running correctly.

2.) It the air temperature is greater than 85°F at the intake grill on the backside of the WhisperKOOL unit, then the room is inadequately ventilated.

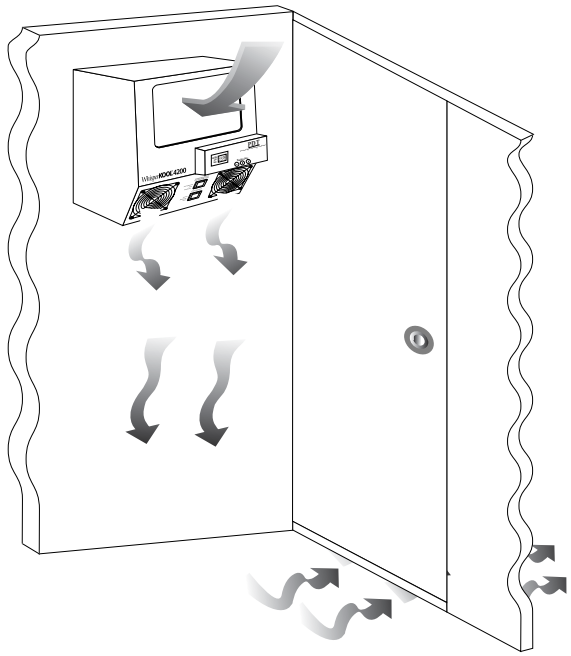
3.) To further test this situation, locate a household fan and point it directly to the rear intake grill on the unit. Operate the fan at maximum capacity with the rear area open to ventilation. Wait fifteen minutes and measure the air temperature coming from the circulating fans in front of the unit. If the air temperature is cooling, it confirms a lack of proper ventilation.

If the exhaust area is confined, (for example, if the unit vents into a crawlspace), then as the temperature outside the unit rises, the WhisperKOOL unit must expend more energy (and will generate more heat) in order to maintain a cool temperature inside the room. Eventually, the unit cannot keep up and the temperature inside the cellar climbs.

To solve the problem, make sure that the WhisperKOOL vents into a space where heat cannot build up.

Door Seal

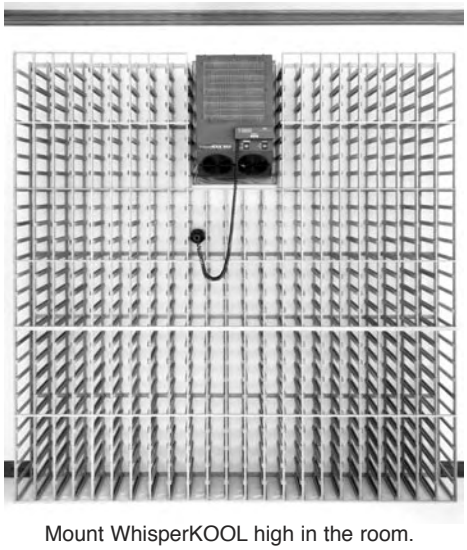
A high quality door with a proper seal is another important aspect of a well-designed cellar. If there is a gap between the bottom of the door and the floor, the cool air will sink and flow out beneath the door. While the release of the cool air may be subtle, it will require the WhisperKOOL unit to continue to operate without achieving the desired results. Use good-quality weather-stripping and seals around the cellar door to prevent cool air leakage. For more details, see Preparing the Wine Cellar, “Door” on page 5.



Cool air drops and exits beneath door.

Unit Mounting

Mounting the unit in the cellar has a significant impact on the unit's ability to cool the air in the room. A law of nature states that warm air rises while cool air falls. The unit must be mounted high in the room in order to capture the warm air and replace with cool air. If the unit is mounted low in the cellar, it has a tendency to circulate the cool air at the bottom of the cellar but has no ability to draw the warm air from the higher space in the cellar. This will result in an inconsistent temperature range.



Mount WhisperKOOL high in the room.

Thermostat

If the WhisperKOOL unit is not cooling the room, it might be due to a faulty thermostat. Use the following procedure to test the thermostat.

1.) Unplug the WhisperKOOL unit.

2.) The PDT thermostat is attached to the front of the WhisperKOOL unit with two screws, one at each end of the thermostat. Remove the screws and detach the PDT.

3.) Unplug the PDT from the main unit, and plug in the by-pass plug. The by-pass plug lets you run the WhisperKOOL without having the thermostat installed.

4.) Plug the WhisperKOOL unit back in. The unit will begin running and cooling immediately. Let the unit run for 24 hours.

5.) After 24 hours, use an accurate thermometer (preferably a high-quality digital thermometer) to measure the temperature of air coming out of the WhisperKOOL unit's front fans. If it is cooling the room, then the problem may lie with the thermostat.

If the WhisperKOOL unit cools the room without the PDT installed, then the thermostat should be replaced. The by-pass plug will allow the WhisperKOOL unit to continue to function, but it will not be able to monitor or maintain the correct temperature automatically without the thermostat.

If you continue to run the WhisperKOOL on the by-pass plug without the thermostat, you will need to turn off the WhisperKOOL unit periodically to keep it from icing up. We recommend cycling the unit on and off every eight hours if possible or as needed.

For replacement of the PDT, please contact Customer Service. See Warranty Service on page 22.

Condensation

Water Leaking, Front

Moisture condensation is the natural result of cooling air. The WhisperKOOL has an internal drain for removing collected condensation from the evaporator coil going to the compressor pan where it is evaporated and dissipated into the exhausting environment. Water leaking from the front vents is caused by build-up of dust from the air circulating inside the cellar. This accumulation clogs the drain line from the evaporator pan, resulting in the overflow.

The only way to effectively prevent this problem is to make sure that the WhisperKOOL is installed in a relatively dust-free environment.

Your options to resolve this problem are either to send the unit back to the factory or disassemble the unit and clear the clogged drain line yourself. However, unauthorized repairs will void warranty.

Please contact Customer Service for assistance and instructions.

Water Leaking, Rear

The WhisperKOOL product is designed to dissipate excessive moisture by collecting it in the compressor pan and using the natural compressor heat along with a heating element to remove condensate. Operating the WhisperKOOL in excessively humid conditions can cause the unit to accumulate more condensation (water) then the unit can dissipate while operating, resulting in leakage. In order to resolve this issue, the unit is designed with both a Condensate Evaporator control switch and an external drain line (see page 10). The Condensate Evaporator switch will allow you to operate the heating element continuously whether the unit is operating or not. (See Condensate Evaporator on page 10.)

Icing Up

In the unlikely event that your WhisperKOOL unit is icing up in front, unplug the unit for 24 hours and allow the ice to melt away. Plug the unit back in and test on the by-pass plug for 24 hours (refer to page 8). Within the 24 hour period the unit should not develop ice and should be generating cold air. If the unit is functioning properly when on by-pass, the icing may have been a result of a faulty thermostat (see page 17). If while on by-pass, the unit continues to form ice, first check that all 4 fans are working. Secondly, check to see if the unit is blowing cold air. If the air is cool to luke warm, but not cold, the unit requires further service. The WhisperKOOL may have low refrigerant.

Please contact Customer Service for assistance and guidelines.

Power Requirements

When the WhisperKOOL starts to operate, it draws several times more power (amps) during the start-up cycle than it does during normal operation. Make sure you have the WhisperKOOL on a dedicated electrical line at a minimum of 20 amps. See the Product Information Table on page 7 to find the correct amperage requirement for your unit.

Make sure that the power line for the WhisperKOOL does not have any additional equipment installed on that circuit. An extra load on the line may be drawing power away from the WhisperKOOL unit. In some cases it may not be readily apparent that an additional appliance or electrical device has been installed on the circuit breaker. In addition, the unit may not be used on an electrical line with a Ground Fault Interrupter (GFI). The WhisperKOOL will draw more amperage than the GFI will allow.

Consumer Care Program

The Consumer Care Program is designed to expedite the shipment of a replacement unit to your location quickly in order to get your cellar cooling again.

This program involves contacting our Customer Service department to purchase a refurbished unit in exchange for your original unit. You will receive a unit which has undergone our five star refurbishment program. The unit is tested in our controlled environment and is ready for immediate use.

Upon receiving the unit, you will be required to repackage your old unit and ship it back to the factory.

Complete details of our program including pricing are available by contacting our Customer Service department.

TECHNICAL ASSISTANCE

Vinothèque Customer Service is available Monday through Friday from 8:00 a.m. to 4:00 p.m. Pacific Standard Time.

Please make sure that you have the following information available before you call:

- The model and serial number of your WhisperKOOL unit.
- Type of thermostat used with your WhisperKOOL.
- Location and installation details, such as ventilation, construction and size of room.

How To Contact Vinothèque Customer Service

Telephone	(209) 466-9463 (800) 343-9463
Fax	(209) 466-4606
Website	www.vinotheque.com
Address	Vinothèque Wine Cellars
	1738 East Alpine Avenue
	Stockton, CA 95205

WARRANTY CLARIFICATION ON WHISPERKOOL PRODUCT

Limits and Exclusions

There are no express warranties except as listed in the Limited Warranty on page 23.

Vinothèque shall not be liable for special, incidental, consequential, or punitive damages, including, without limitation, loss of goodwill, profits, or revenue; loss of wine; loss of use of this product or any associated equipment; cost of substitute equipment; downtime costs; or claims of any party dealing with buyer for such damages, resulting from the use of this product or arising from breach of warranty or contract, negligence, or any other legal theory.

All express and implied warranties, including the warranties of merchantability and fitness for a particular purpose, are limited to the applicable warranty period as set forth above.

Some states do not allow the exclusion or limitation of consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

If a problem arises with your WhisperKOOL system during the warranty period, you must contact Vinothèque Customer Service for warranty coverage and repairs.

If a problem is not handled to your satisfaction, write to Vinothèque Wine Cellars, Attn. Customer Service, 1738 East Alpine Avenue, Stockton, CA 95205 or call (209) 466-9463.

Correct WhisperKOOL Installation

Failing to address all of the variables associated with proper installation will cause the unit to operate incorrectly and limit its ability to cool and the longevity of the unit itself.

Follow Troubleshooting Outline

In order to avoid any unnecessary expense it is essential that you follow the troubleshooting guidelines provided herein. The majority of the problematic issues associated with the WhisperKOOL product have to do with the incorrect design of the cellar or improper use of the product rather than a faulty WhisperKOOL unit itself. Many of the units returned for repair test out satisfactory within our correct operating parameters. Please take the time to review the troubleshooting guide prior to contacting our Customer Service department.

Vinothèque Customer Service

We at Vinothèque strive to provide the best possible customer service for our clients. Because each cellar design is custom and has its own unique design parameters, we are often at a disadvantage in terms of assisting the customer with their specific problems. We are required to ask multiple questions regarding fundamental design issues such as where the unit is mounted, what type of power and amperage the unit is connected to, etc. The majority of the problems associated with the product are associated with the incorrect installation or sizing of the units.

Your Distributor or Cellar Contractor should be able to assist you with designing and correctly installing the unit to adequately cool your cellar. If you have built your own cellar independent of a professional consultant or contractor, you

may be unfamiliar with all of the complex issues associated with the proper use of this product. Therefore read and follow the installation instructions and trouble-shooting guide carefully prior to shipping the unit back to the factory for repair.

Warranty Service

To obtain warranty service, you must:

1.) Be the original retail purchaser of the product. Serial Number and/or Proof of purchase is required.

2.) Contact our Customer Service Department at (800) 343-9463 to receive a Return Merchandise Authorization number and a prepaid return shipping tag.

3.) Package the unit in the original box or equivalent. This will assure the necessary protection required during shipping. Mark the box with the return address, RMA# and arrows noting “this end up”.

Items not Covered Under Warranty

Removal and installation of unit into cellar.

Unauthorized repairs made on the unit.

Damage resulting from shipping.

Incorrect installation and use of the product, including and not limited to:

Inadequate sizing of the unit.

Inadequate ventilation to the exhaust side of the unit.

Constricted airflow, such as ducting, to and from unit.

Insufficient power source from which to draw proper amperage.

Freight

Vinothèque certifies that all units manufactured have been tested and are in correct operating condition upon leaving the factory.

1.) It is the responsibility of the consumer to inspect the unit upon arrival to assure that no freight damage has occurred. Any damage to the box must be noted on the shipping document. Please contact Vinothèque Customer Service to assist in filing a damage claim. Damage must be reported within 15 days.

2.) In the event that the consumer has received a unit that is operating incorrectly, Vinothèque Customer Service must be contacted for warranty coverage.

3.) In the event that the unit is inspected and approved for warranty coverage, Vinothèque will repair the unit, ship it back to the customer freight prepaid (2 day air).

4.) If the unit tests without fault, the customer will be responsible for paying the freight charges associated with returning the unit to their location.

Testing a Return Unit

All units sent in for repair are tested thoroughly in order to determine whether a malfunction is occurring. The following test procedures are conducted.

The unit will first be physically inspected for damage. Damaged units due to freight are the responsibility of the customer, unless a damage claim has been initiated.

Amperage load is tested to assure no electrical malfunctions are evident. The units will draw significant amps upon start up. Assuring a 20 amp dedicated circuit is vital to the performance of the unit. If the unit is testing adequately within our parameters, a thermostat graph test is conducted. This involves placing the unit in a controlled environment and having it run at maximum performance levels. The graph will document whether the unit is cooling sufficiently and consistently.

If the unit fails to cool adequately, the unit will then be examined for refrigerant amounts and charge.

All warranty repairs will be completed upon detection.

LIMITED WARRANTY

Vinothèque Wine Cellars (Vinothèque) warrants this product against defects in material or workmanship as follows:

1. LABOR: For a period of one year from the date of purchase. If this Product is determined to be defective, Vinothèque will repair or replace the Product, at its option, at no charge. After the Warranty Period, the customer is responsible for all labor charges.

2. PARTS: Vinothèque will supply, at no charge, new or rebuilt replacements parts in exchange for defective parts for a period of one (1) year. The compressor part only is warranted for five years.

3. FREIGHT:During the first twelve months from the date of purchase, Vinothèque will cover freight for the repair of units under warranty to customers within the continental United States. All WhisperKOOL units must be shipped to the factory. Vinothèque will pay to have the unit shipped back to the customer.

This warranty does not cover cosmetic damage caused during installation or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than Vinothèque to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS. This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that the unit is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if the factory-applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. VINOTHÈQUE SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

Vinothèque

WINE CELLARS

1738 East Alpine Avenue
Stockton, California 95205
www.vinotheque.com